

Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

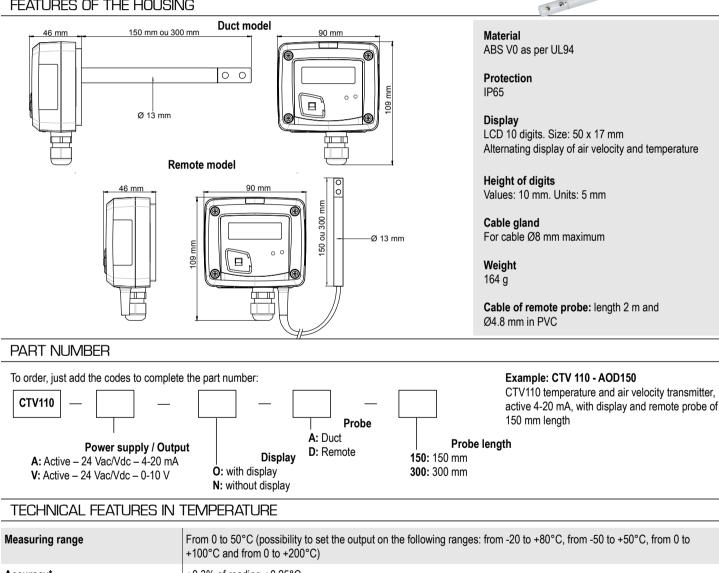
Temperature and air velocity transmitter **CTV 110**

KEY POINTS

• Measuring range from 0 to 30 m/s and from 0 to 50°C

- 0-10 V or 4-20 mA output, active, power supply 24 Vac/Vdc (3-4 wires)
- ABS V0 housing, IP65, with or without display
- · Alternating display of air velocity and temperature
- "1/4 turn" system mounting with wall-mount plate
- · Housing with simplified mounting system

FEATURES OF THE HOUSING



Accuracy*	±0.3% of reading ±0.25°C
Unit of measurement	°C, °F
Response time	1/e (63%) 5 s
Type of sensor	Pt100 1/3 DIN
Resolution	0.1°C
Type of fluid	Air and neutral gases

*All the accuracies indicated in this technical datasheet were stated in laboratory conditions, and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.

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TECHNICAL FEATURES IN AIR VELOCITY				
Outputs settings	From 0 to 5m/s, from 0 to 10 m/s, from 0 to 15 m/s, from 0 to 20 m/s and from 0 to 30 m/s			
Accuracy*	From 0 to 3 m/s: \pm 3% of reading \pm 0.05 m/s From 3 to 30 m/s: \pm 3% of reading \pm 0.2 m/s			
Units of measurement	m/s and fpm			
Response time	1/e (63%) 2 s			
Resolution	From 0 to 3 m/s: 0.01 m/s From 3 to 30 m/s: 0.1 m/s			
Type of fluid	Air and neutral gases			

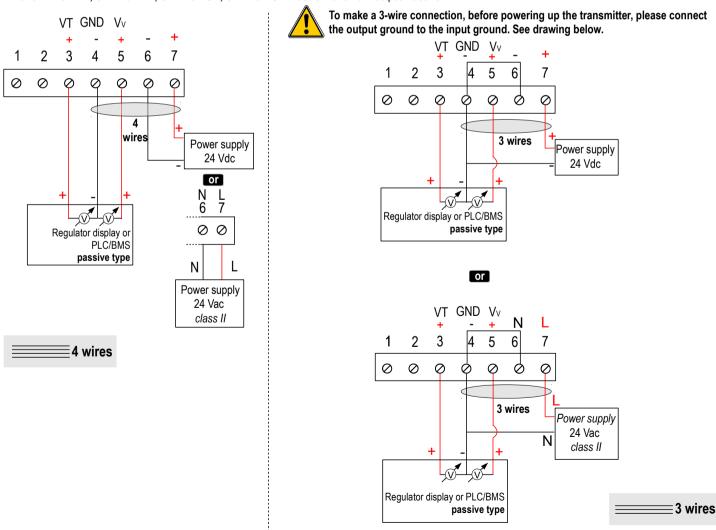
TECHNICAL SPECIFICATIONS

Output / Power supply	 - active sensor 0-10 V or 4-20 mA (alim. 24 Vac/Vdc ±10%), 3-4 wires - common mode voltage <30 VAC - maximum load: 500 Ohms (4-20 mA) / minimum load: 1 K Ohms (0-10 V)
Consumption	3 VA (0-10 V) or 3 VA (4-20 mA)
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE3
Electrical connection	Screw terminal block for cables from 0.05 to 2.5 mm ² or from 30 to 14 AWG Carried out according to the code of good practice
PC communication	USB-mini DIN cable
Environment	Air and neutral gases
Conditions of use (°C/%RH/m)	From 0 to +50°C. In non-condensing condition. From 0 to 2000 m.
Storage temperature	From -10 to +70°C

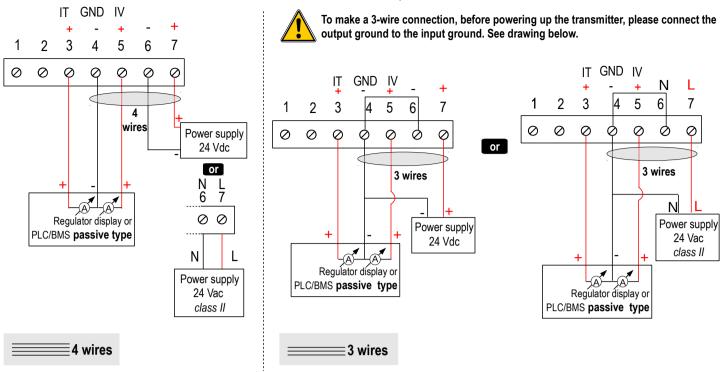
ELECTRICAL CONNECTIONS - as per NFC15-100 standard

This connection must be made by a qualified and trained technician. To make the connection, the transmitter must not be energized.

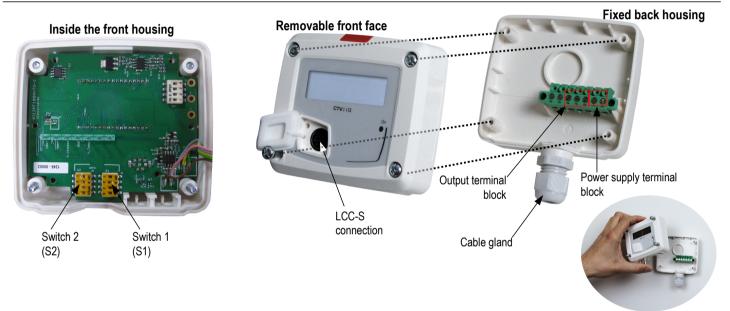
For CTV110-VNA, CTV110-VND, CTV110-VOA, CTV110-VOD models with 0-10 V output – active:



For CTV110-ANA, CTV110-AND, CTV110-AOA, CTV110-AOD models with 4-20 mA output - active:



CONNECTIONS



SETTINGS AND USE OF THE TRANSMITTER

Configuration

It is possible to configure the measuring ranges and the units of the transmitter via switch and/or software.

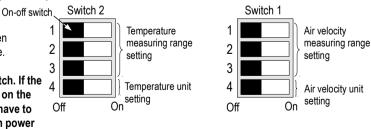
To configure the transmitter, it must not be energized. Then, you can make the settings required, with the DIP switches (as shown on the drawing below). When the transmitter is configured, you can power it up.

Configuration by switch

To configure the transmitter, unscrew the 4 screws from the housing then open it. DIP switches allowing the different settings are then accessible.



Please follow carefully the combinations beside with the DIP switch. If the combination is wrongly done, the following message will appear on the display of the transmitter "CONF ERROR". In that case, you will have to unplug the transmitter, place the DIP switches correctly, and then power the transmitter up.



> Air velocity unit setting - switch 1

To set a measurement unit in air velocity, put the on-off switch 4 of the units as shown in the table beside.

Configurations	m/s	fpm
Combinations	1 2 2 3 3 4 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 2 3 4

Outputs setting in air velocity – switch 1	Configurations From 0	to 5 m/s From 0 to	0 10 m/s From 0 t	o 15 m/s From 0 to 20 m/	/s From 0 to 30 m/s
To set a measuring range, put the on-off switches 1, 2 and 3 as shown beside.	Combinations				1 2 3 4
Setting of temperature unit – switcl To set the temperature unit, put the on-off s		beside	Configurations	0°	°F
			Combinations		
Outputs setting in temperature – switch 2	Configurations From 0 to	+50°C From -20 to	+80°C From -50	to +50°C From 0 to 100	°C From 0 to 200°C
To set a measuring range in temperature, put the on-off switches 1, 2 and 3 of the measuring ranges as shown beside.	Combinations				
CONFIGURATION VIA LCC-S S	OFTWARE (option)				
 An easy and friendly configuration with t You can configure your own intermediary ran Example: for a 0-30 m/s transmitter, the min To access the configuration via software : - Set the DIP switches as shown Please refer to the user manual of the LCC The configuration of the parameters can 	nges. imum delta of the range is 5 beside and connect the cab \$ 100 to make the configurat	le of the LCC-S to the ion.	connection of the t	ransmitter.	1 1
MOUNTING				<u>37.5 mm</u> 40 mm	ant to
To mount the transmitter, mount the ABS pla pins are supplied). Insert the transmitter on the fixing plate (see housing in clockwise direction until you hear is correctly installed.	A on the drawing beside). F	Rotate the	Ø 14 mm		68 mm 68 mm 68 mm 68 mm 68 mm 68 mm 68 mm 68 mm 68 mm 68 mm
 Positioning of the measuring element in the air flow: The probe must be placed perpendicular to the air flow, as shown beside. For the duct mount probes, it is possible to place the probe's head front of the air flow, and keep the housing straight: Locate the red point marked on the probe's head. Remove the screw located on the tip of the probe's body. Rotate the probe's head by ¼ turn, ½ turn or ¾ turn, in order to place the red spot front to the air flow. 					ent (temperature)
MAINTENANCE					01120
Please avoid any aggressive solvent. Pleas rooms or ducts.	se protect the transmitter and	d its probes from any	cleaning product co	ntaining formalin, that may b	
OPTIONS AND ACCESSORIES	6		TIONS FOR U		- CTV110
 KIAL-100A: Power supply class 2, 230 V/ KIAL-100C: Power supply class2, 230 V/a Only the accessories supplied with 	ic input, 24 Vdc output	parameters d		accordance with its intende nnical features in order not to e.	

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